

S/137/62/000/005/103/150  
A006/A101

AUTHORS: Kutaytseva, Ye. I., Filippova, Z. G., Butusova, I. V.

TITLE: The effect of some elements upon recrystallization processes of alloys used for the cladding of sheets

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 71, abstract 5I431 (V sb. "Deformiruyemye alyumin. splavy", Moscow, Oborongiz, 1961, 53 - 58)

TEXT: The authors present results of investigating the effect of Mn, Cr, Mg, Ti and Zr upon the size of macrograins in sheets, which were quenched, stretched with different deformation degrees, and then subjected again to heating for quenching. Ingots were manufactured of A00 and AB00 (AV00) grade aluminum with admixture of 0.05, 0.1 and 0.3% Mn, 0.05, 0.1 and 0.3% Zr; 0.05 and 0.1% Ti and 0.05, 0.3 and 0.5% Mg; and also ingots of A2 grade aluminum with addition of 0.03% Mn. When casting ingots in water-cooled molds unlike those obtained by semi-continuous casting, the formation of a coarse-crystal structure can be fully prevented, independent of the previous deformation degree, by adding

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The effect of some...

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to the composition of grade "A00" Al, used for the plate-table sheets, 0.3% Mn or 0.3% Zr and also by using Al with a higher Fe content. Mn in an amount of 0.3% does not fully exclude the formation of a coarse-grained structure on the sheet surface, clad with high-purity Al (AV000). The presence of small amounts of Mn (0.03%) in the composition of the plate alloy promotes the formation of a coarse-grained structure.

T. Rumyantseva

[Abstracter's note: Complete translation]

Card 2/2

KUL'BA, F.Ya.; MIRONOV, V.Ye.; TSUN TSZIN'-YAN [TS'ung Chin-yang]; FILIPPOVA, Z.G.

Electricity conductivity of some aminates of trivalent thallium in  
nitrobenzene solutions. Zhur.neorg.khim. 8 no.3:672-675 Mr '63.  
(MIRA 16:4)

1. Leningradskiy tekhnologicheskij institut imeni Lensovet, kafedra  
obshehey khimii.

(Thallium compounds—Electric properties)  
(Nitrobenzene)

(Amines)

38982  
S/137/62/000/006/123/163  
A052/A101

17.12.10

AUTHORS: Kutaytseva, Ye. I., Zhukov, S. L., Butusova, I. V., Filippova, Z. G.

TITLE: Fatigue strength of aluminum-base alloys

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 6, 1962, 58 - 59, abstract 61349 (V sb. "Deformiruyemye alyumin. splavy". Moscow, Oborongiz, 1961, 150 - 157)

TEXT: Mechanical properties and  $\sigma_w$  of alloys of the Al-Mg-Si system lying on the sections parallel to the sides Al-Mg and Al-Si of concentration triangle were investigated. All alloys had a constant content of 0.35 - 0.4% Mn and 0.17 - 0.2% Cr and were prepared of A00 Al. The ingots, after having been poured into a water-cooled mold, were diffusion-annealed for 24 hours at 470°C and pressed at 470 - 490°C in rods 22 mm in diameter. The heat treatment consisted of 40 min. heating at 520°C in a saltpeter bath, water hardening and artificial ageing at 150°C during 15 hours. It is shown that an increase in percentage of  $Mg_2Si$  phase in the solid solution leads to a continuous increase of  $\sigma_b$  and decrease of  $\delta$ . An excess of Si at a constant Mg and  $Mg_2Si$  content increases sharp-

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A052/A101

# Fatigue strength of aluminum-base alloys

ly  $\sigma_b$  and decreases  $\delta$ . In this case  $\sigma_w$  increases from 8 to 11 kg/mm<sup>2</sup> only in alloys with 0.8% Mg<sub>2</sub>Si. An excess of Mg of up to 0.7% in alloys with 0.8% Mg<sub>2</sub>Si contributes to an increase of  $\sigma_b$  and to decrease of  $\delta$  at a practically constant  $\sigma_w$ . A further increase of Mg content results in a drop of  $\sigma_b$ ,  $\sigma_w$  and a rise of  $\delta$ . In alloys with 1.4 and 1.9% Mg<sub>2</sub>Si an increase of Mg to 2% decreases sharply  $\sigma_b$  and increases  $\delta$ . An increase of Mn content from 0.3 to 0.6% in alloys of 6061 (1.1% Mg + 0.6% Si) and AB (AV) (1.0% Mg + 1.2% Si) types leads to an increase of  $\sigma_b$  and  $\sigma_w$ . The most rational AV alloy composition securing the stability of properties of pressed products is suggested: 0.8 - 1.2% Si, 0.6 - 1.0% Mg, 0.4 - 0.9% Mn. Comparative fatigue strength tests at a cantilever bending of smooth and notched samples carried out on standard AB (AV), AMГ 3 (AMG3), Д1 (D1), Д16 (D16), В 95 (V95) and AK 8 (AK8) alloys have shown that AK8, D16 and V95 alloys have maximum  $\sigma_w$ .  $\sigma_w$  of D1, D16 and V95 alloys is in a direct dependence on ageing conditions. In the case of V95 alloy maximum  $\sigma_w$  is reached after 16 hour ageing at 140 C. An addition of Mn or Cr to Al-Mg-Zn or Al-Mg-Zn-Cu alloys contributes to an increase of  $\sigma_b$ ,  $\sigma_w$  and to a sharp decrease of  $\delta$ . However, in alloys with Cr,  $\sigma_b$  and  $\sigma_w$  are lower than in alloys with Mn. A simultaneous presence of 0.35% Mn and 0.16% Cr in V95 alloy makes it possible to ob-

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tain high  $\sigma_b$  and  $\sigma_w$  at a satisfactory  $\delta$ .

S/137/62/000/006/123/163  
AC52/A101

E. Kadaner.

[Abstracter's note: Complete translation]

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ACCESSION NR: AT4037663

S/2981/64/000/003/0216/0226

AUTHOR: Kutaytseva, Ye. I.; Filippova, Z. G.

TITLE: Effect of heat treatment conditions on the mechanical properties and surface quality of pressed parts made of alloys V95 and D16

SOURCE: Alyuminiyevy\*ye splavy\*, no. 3, 1964. Deformiruyemy\*ye splavy\* (Malleable alloys), 216-226

TOPIC TAGS: aluminum, aluminum alloy, malleable aluminum alloy, alloy V95, alloy D16, alloy mechanical property, alloy heat treatment, alloy surface quality, aluminum pressing

ABSTRACT: Rejects of pressed shapes due to the presence of dark spots on their surface are frequently encountered in practice, since investigations have shown a reduction in strength at such points. The formation of dark spots on the surface of pressed parts is connected with the conditions under which they are quenched. In case of dense packing of parts, steam pockets may form between them and reduce the cooling rate. Dark spots have frequently been observed on parts made of alloy V95. The present study on pressed specimens of V95 and D16 aluminum alloys was designed to determine the influence of the time consumed for the transfer of specimens from the saltpeter bath to the quenching

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ACCESSION NR: AT4037663

tank on the mechanical properties, the electric resistivity, and the surface quality. The influence of manganese and zirconium on the mechanical properties and rate of transformation of the solid solution was also studied. Both freshly quenched and quenched and aged specimens were tested. Some of the effects on strength are shown in Figures 1 and 2 of the Enclosure. The electrical resistivity generally decreased sharply when the transfer from the salt-peter bath to the quenching tank took more than 30 seconds, although the effect was much less in the absence of Mn and Cr. On the basis of the results obtained it is concluded that the appearance of dark spots on the surface of heat treated pressed products after anodizing is caused by transformation of the solid solution, and depends on the chemical composition of the alloy as well as on the conditions during heat treatment. Thus, all factors which stimulate the transformation of solid solutions will promote the formation of dark spots. Under normal conditions, the dark spots are found to disappear on re-quenching. The presence of manganese greatly affects the transformation rate of a solid solution, particularly in alloy V95 and to a lesser degree in alloy D16. Correspondingly, the influence of the time consumed for transfer of specimens from the salt-peter bath to the quenching tank is greater for alloy V95 than for D16. Quantities of zirconium on the order of 0.16 - 0.35% also produce a considerable increase in the strength of pressed products made of alloy V95. However, the transformation rate of the solid solution is lower with zirconium than with manganese, and therefore the alloy is less sensitive to the conditions of heat treatment. This property can be significant for

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06/13/2000

CIA-RDP86-00513R000413120019-0"

ACCESSION NR: AT4037663

improving the quenching of large-sized parts. Orig. art. has: 4 figures and 2 tables.

ASSOCIATION: None

SUBMITTED: 00

SUB CODE: MM

DATE ACQ: 04Jun64

NO REF SOV: 000

ENCL: 02

OTHER: 000



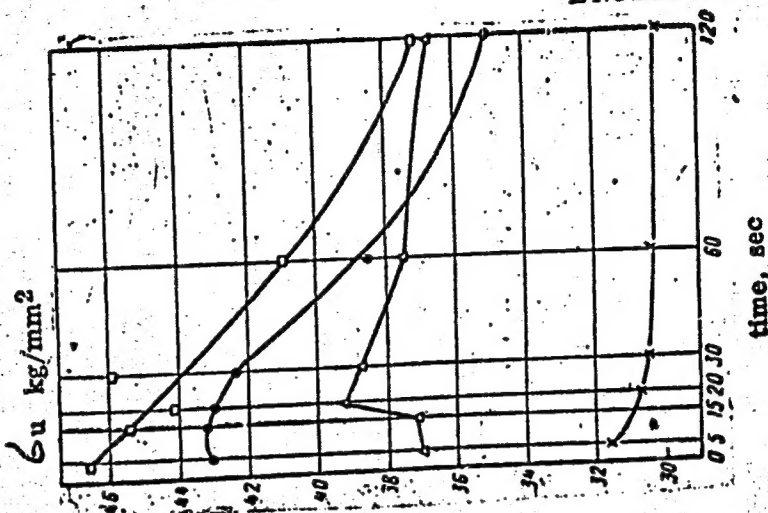
Card

ACCESSION NR: AT4037663

ENCLOSURE: 01

Fig. 1 - Ultimate strength of Aluminum Alloys in freshly quenched condition versus time consumed for transfer of specimens from the Saltpeter Bath to the Quenching Tank

- - V95
- x - V95 without Mn and Cr
- Δ - V95 without Mn and Cr, but with Zr
- - D-16



Card

4/5

MUKHLENOV, I.P.; DOBKINA, Ya.I.; TRABER, D.G.; DERYUZHKINA, V.I.;  
FILIPPOVA, Z.G.

Effect of the concentrations of impregnating solutions on the  
chemical composition and structure of a mechanically strong  
contact vanadium mass. Khim. prom. 41 no.10:751-754 O '65.  
(MIRA 18:11)

MUKIMOV, S.M.; KRYLOVA, N.I.; FILIPPOVA, Z.I.

Reactions in melts of Na, K, Mg, and Ca sulfates. Trudy Inst. Khim.,  
Akad. Nauk Uzbek. S.S.R., Inst. Khim., No.2, Obshchaya i Neorg. Khim.  
113-22 '49. (MLRA 5:12)  
(CA 47 no.19:9839 '53)

MUKIMOV, S.M.; FILIPPOVA, Z.I.

Reactions in melts of Na, K, Mg, and Ca sulfates. Trudy Inst. Khim.,  
Akad. Nauk Uzbek. S.S.R., Inst. Khim. No.2, Obshchaya i Neorg. Khim.  
123-32 '49. (MLBA 5:12)  
(OA 49 no.19:9839 '53)

ACC NR: AR7004036 (4) SOURCE CODE: UR/0081/66/000/022/M005/M005

AUTHOR: Buki, Yu. M.; Filippova, Z. K.

TITLE: Effect of surface-active agents on the mechanical properties of high strength sintered corundum

SOURCE: Ref. zh. Khimiya, Part II, Abs. 22M34

REF SOURCE: (Sb. nauchn. tr.) Ukr. n. -i. in-t ogneporov, vyp. 8(55), 1965, 76-86

TOPIC TAGS: corundum, sintering, surface-active agent, lubricant surface active agent, mechanical property

ABSTRACT: The effect of the following surface-active agents on the strength properties of corundum ceramics has been investigated: water,  $H_2SO_4$  and HCl solutions; paste based on secondary alcohols, oleic acid; self-emulsifying oil; and turpentine. The tensile strength of corundum ceramics is lowered most by water, oleic acid, self-emulsifying oil, and turpentine. In machining of corundum ceramics, surface-active agents are recommended for lowering the strength characteristics, for lubrication and for cooling. In practice, however, water and acids, being the

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ACC NR: AR7004036

most active surface-active agents, cannot be used for machining corundum ceramics since they corrode machines and do not lubricate. Exposure to surface-active agents insignificantly lowers the strength of ceramics. However, environmental humidity considerably reduces the strength properties of ceramics. Orig. art. has: a bibliography of 11 reference items. Author's abstract. [Translation of abstract] [AM]

SUB CODE: 11/

Card 2/2

FRATKIN, Z.G.; MOSHKOVICH, G.N.; FILIPPOVA, Zh.A.

Determination of sodium and potassium in titanium dioxide by flame  
photometry. Zav. lab. 31 no.9:1090-1091 '65. (MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut galurgii.

L 1471-66 EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JG

ACCESSION NR: AP5022170

UR/0032/65/031/009/1090/1091

AUTHOR: Fratkin, Z. G.; Moshkovich, G. N.; Filippova, Zh. A.

TITLE: Determination of sodium and potassium in titanium dioxide by flame photometry

SOURCE: Zavodskaya laboratoriya, v. 31, no. 9, 1965, 1090-1091

TOPIC TAGS: sodium, potassium, titanium dioxide, flame photometry, quantitative analysis, photometric analysis

ABSTRACT: In the method proposed to determine alkali elements in titanium dioxide, the latter is reacted with gaseous hydrogen fluoride at 400C, and the volatile titanium tetrafluoride formed is driven off. Sodium and potassium are left over and are determined in solution with model III Zeiss flame photometer with an interference light filter, the spectrum being excited with an air-acetylene flame. Aqueous solutions of sodium and potassium chloride serve as the standards. Titanium impurities do not interfere with the analysis. The sensitivity of the determination is  $2 \times 10^{-4}\%$ , and the mean-square-error of a single determination is 10%. Orig. art. has: 1 table.

Card 1/2



L 1471-66

ACCESSION NR: AP5022170

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut galurgii (All-Union  
Scientific Research Institute of Halurgy)

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, Gc

NO REF SOV: 002

OTHER: 001

Card

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SESSION NR: AP5015691

UR 0076 45 139 140 141 142 143 144 145 146 147  
54. 48 49 50 51 52

AUTHOR: Shneyerson, A.L.; Minlovich, M.A.; Filippova, Zh. M.; Soroko, S.N.; E.A.

1. Liquid-vapor equilibrium in the systems nitric acid-water-magnesium  
nitrate, water-calcium nitrate, and calcium nitrate-magnesium nitrate

2. Zhurnal fizicheskoy khimii, v. 39, no. 6, 1965, 1403-1407

3. CS: magnesium nitrate, calcium nitrate, nitric acid, bases, mixtures,  
isotropic mixture

4. The presence of magnesium nitrate, calcium nitrate, and nitric acid in the composition of

APPROBATION NR. AP5015691

starting on the (centropic point of nitro) as a ...

... and 2 tables.

SUBMITTED: 13Feb64

ENCL: 02

SUB CODE: 1C

REF SOV: 003

OTHER: 004

Card 2/4

L 10197-66 EWT(m)/ENP(t)/ENP(b) LJP(c) JD

ACC NR: AF5028456

SOURCE CODE: UR/0286/65/000/020/0019/0019

AUTHORS: <sup>55</sup>Maniovich, M. A.; <sup>55</sup>Shneyerson, A. L.; <sup>55</sup>Filippova, Zh. M.; <sup>55</sup>Atroshchenko, V. I.; <sup>55</sup>Zasorin, A. P.; <sup>55</sup>Ivanovskiy, F. P.

ORG: none

TITLE: Method for obtaining nitric acid. <sup>27.5</sup>Class 12, No. 175492 [announced by <sup>55</sup>State Scientific Research and Design Institute for the Nitrogen Industry and Products of Organic Synthesis (Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 19

TOPIC TAGS: nitric acid, nitrogen oxide, nitrogen compound

ABSTRACT: This Author Certificate presents a method for obtaining nitric acid at a pressure of 4—9 atm by absorbing gaseous nitrogen oxides in water in an absorption tray-type column. To obtain 68—80% nitric acid, liquid oxides of nitrogen are introduced into the column at a point below the formation of 50—63% nitric acid. The reaction may also be carried out by introducing air into the column at a point below which the liquid oxides of nitrogen are introduced.

SUB CODE: 11/ SUBM DATE: 18Oct63/

Card 1A

UDC: 661.56

CHAPMAN, A.L.; FILIPPOVA, Zh.M.; MINIOVICH, M.A.

Density and viscosity of concentrated solutions of magnesium  
nitrate within 100°-150° temperature range. Zhur.prikl.khim.  
38 no.9:2110-2112 S '65.

(MIR: 18:11)

SHNEYERSON, A.L.; MINIOVICH, M.A.; FILIPPOVA, Zh.M.; SOROKO, S.N.;  
PLATONOV, P.A.

Liquid-vapor equilibrium in the systems  $\text{HNO}_3 - \text{H}_2\text{O} - \text{Mg}(\text{NO}_3)_2$ ,  
 $\text{HNO}_3 - \text{H}_2\text{O} - \text{Ca}(\text{NO}_3)_2$ , and  $\text{HNO}_3 - \text{H}_2\text{O} - \text{Mg}(\text{NO}_3)_2 - \text{Ca}(\text{NO}_3)_2$ .  
Zhur. fiz. khim. 39 no.6:1403-1407 Je '65.

(MIRA 18:11)

1. Gosudarstvennyy institut azotnoy promyshlennosti. Submitted  
Feb. 13, 1964.

CA FILIPPOVA, Z.T.

10

The nitric acid balance in the oxidation of xylose. N. V. Chalov and Z. T. Filippova. *Zhur. Priklad. Khim.* (J. Applied Chem.) 22, 1273-8 (1949).—Analysis of the products of oxidation of xylose by  $\text{HNO}_3$  at elevated temp. in a N stream at 60° gave the following product distribution. With acid of d. 1.3, 50.6–52.6% of the  $\text{HNO}_3$  enters the reaction and goes to  $\text{NO}$  and  $\text{NO}_2$ , 45–7% does not react, and 2–4% is lost. The  $\text{NO}/\text{NO}_2$  ratio is 3.08–3.57. In order to lower the amt. of unchanged acid the use of more concd. acid (50.4%, d. 1.37) was studied. This leaves only 20%

unreacted acid. The amt. of acid for optimum yield of trihydroxyglutaric acid is 170–200 g.  $\text{HNO}_3$ /100 g. xylose; hence, the best yield, 62.8%, was obtained with 250 g. 50%  $\text{HNO}_3$ . The amt. of  $(\text{CO}_2\text{H})_2$  formed ranges from 1.5 to 5.24%. G. M. Kosolapoff

All-Union Sci Res Inst. Sulfite, Alcohol and Hydrolysis Industry

FILIPPOVA\*NUTRIKHINA, A. L.; RESHETNIKOVA, A.D.; FADEYEVA, M.A.;  
YESIKOV, M.S.; KOLTUNOV, M.V. and GRACHEVA, L.I.

"The Results of Testing Nursery-age Children and their Mothers  
for Toxoplasmosis"

Voprosy toksoplazmoza, report theses of a conference on toxoplasmosis,  
Moscow, 3-5 April 1961, publ. by Inst Epidemiology and Microbiology  
im. N. F. Gamaleya, Acad. Med. Sci USSR, Moscow, 1961, 69pp.



FILIPPOVA-NUTRIKHINA, Z. L.

Rauchfuss-Vincent angina in children. Uchen. zapiski vtor. moskov.  
med. Inst. Stalina 1:202-207 1951. (CIML 21:3)

1. Assistant. 2. Clinic for Children's Diseases (Director --  
Prof. N. I. Osinovskiy) of the Therapeutic Faculty located at  
the Children's Clinical Hospital (Head Physician -- Ye. V.  
Prokhorovich).

**FILIPPOVA-NUTRIKHINA, Z.L.**

Certain data on changes in the cardiovascular system in children in viral influenza. Sovet. med. 16 no.12:15-17 Dec 1952. (OLML 23:4)

1. Candidate Medical Sciences. 2. Of the Children's Clinic of the Therapeutic Faculty of Second Moscow Medical Institute imeni I. V. Stalin (Director -- Prof. N. I. Osinovskiy located at the Children's Polyclinic No 10 of Moscow (Director Ye. I. Rabinovich).

FILIPPOVA-NUTRIKHINA, Z.L.

(Review)

"Influenza in young children." V.V.Ritova. Reviewed by Z.L.  
Filippova-Nutrikhina. *Pediatrics* no.2:89 Mar-Apr '54. (MLRA 7:6)  
(INFLUENZA) (RITOVA, V.V.)

FILIPPOVA-NITRIKHINA, Z.I., kandidat meditsinskikh nauk; MAKAROV, V.N.,  
sav. elektrokardiograficheskii kabinetom

Case of chronic paroxysmal tachycardia in an 11-year-old boy.  
Pediatriia no.5:78-81 8-0 '54. (MLRA 7:12)

1. Iz kliniki gospiatal'noy pediatrii (dir. K.F.Popov) pediatriche-  
skogo fakul'teta II Moskovskogo meditsinskogo instituta imeni I.V.  
Stalina na base Detskoy bol'nitsy imeni N.F.Filatova (glavnyy  
vrach M.N.Kalugina)

(TACHYCARDIA, PAROXYSMAL, in infant and child,  
case report)

~~Filippova-Nutrikhina, Z.L.~~  
**FILIPPOVA-NUTRIKHINA, Z.L.**

"Rights of mother and child in the U.S.S.R." S.E.Kopelianskaia.  
Reviewed by Z.L.Filippova-Nutrikhina. Pediatria no.6:93-94 N-D '54.  
(KOPELIANSKAIA, S.E.) (MIRA 8:4)  
(MATERNAL AND INFANT WELFARE)

EXCERPTA MEDICA Sec 7 Vol 10/9 Pediatrics Sept 56

1934. FILIPPOVA-NUTRIKHINA Z. L. Med. Inst. Stalin, Moscow. \* On the symptomatology and morphological features of influenza in children (Russian text) SOVETSK. MED. 1955, 8 (38-40)  
The article is based on autopsies of 33 children who died from influenza during the period of January 1948 to June 1950. In infants the toxic symptoms and digestive disturbances were prominent; in children of 1-3 yr. of age pneumonia and laryngitis were recorded, in addition to encephalitis and meningitis. Death from influenza affected mostly infants at the end of the first or second week of the disease. Necrotic tracheo-bronchitis and haemorrhagic pneumonia as well as haemorrhages into visceral organs were recorded. Degenerative lesions of the heart were noted in about 50% of the cases.

Anigstein - Galveston, Tex. (V, 7)

KIFER, Ye.L., kandidat meditsinskikh nauk: ~~FILIPPOVA-NUTRIKHINA, Z.L.~~,  
dotsent

Congenital epidermolysis bullosa in children. Vop.okh.mat. i det. 1  
no.6:73-78 N-D '56. (MLHA 10:1)

1. Iz detskogo poliklinicheskogo otdeleniya 4-y Grodskoy bol'nitsy  
(zav. A.S.Adamova) i kliniki gospi'tal'noy pediatrii pediatricheskogo  
fakul'teta II Moskovskogo gosudarstvennogo meditsinskogo instituta  
imeni I.V.Stalina (zav. kafedroy - prof. K.F.Popov)  
(SKIN--DISEASES)

FILIPPOVA-NUTRIKHINA, Z.L.; DEMINA, G.V.

Changes in the peripheral blood of young children during influenza.  
Vop.okh.mat.1 det. 3 no.2:53-58 Mr-Apr '58. (MIRA 11:3)

1. Iz kafedry gosital'noy pediatrii (zav.-prof. K.F.Popov, nauchnyy  
rukovoditel'-prof. M.M.Bubrnova) II Moskovskogo gosudarstvennogo  
meditsinskogo instituta imeni N.I.Pirogova.  
(INFLUENZA) (BLOOD)



*FILIPPOVA-NUTRIKHINA, Z.L.*

VASINA, S.G.; VOYT, Ye.B.; FILIPPOVA-NUTRIKHINA, Z.L.

Congenital toxoplasmosis. Vop.okh.mat. 1 det. 3 no.3:58-65 My-Je '58.  
(MIRA 11:5)

1. Iz Instituta malyarii, meditsinskoy parazitologii i gel'mintologii  
Ministerstva zdavookhraneniya SSSR, iz patologoanatomicheskogo otdeleniya  
(zav.-doktor med.nauk L.O. Vishnevetskaya) i kafedry gosital'noy  
pediatrii II Moskovskogo meditsinskogo instituta (zav.-prof. K.F.  
Popov, nauchnyy rukovoditel'-prof. M.M. Bubnova) na baze detskoy  
klinicheskoy bol'nitsy imeni I.V. Rusakova (glavnyy vrach-dotsent  
V.A. Krushkov).

(TOXOPLASMOSIS)

FILIPPOVA-NUTRIKHINA, Z. L.; YESIMOV, M.S. ; KOLTUNOV, A.G.;  
RESHETNIKOVA, A.D. and FADEYEVA, M.A.; PUGACHEV, A.G.  
"Materials on the Diagnosis of Toxoplasmosis in Children"

Voprosy toksoplazmoza, report theses of a conference on toxoplasmosis,  
Moscow, 3-5 April 1961, publ. by Inst Epidemiology and Microbiology  
im. N. F. Gamaleya, Acad. Med. Sci USSR, Moscow, 1961, 69pp.

FILIPPOVA-NUTRIKHINA, Z.L.

Treatment of congenital toxoplasmosis in children. Vop. okh. mat.  
i det. 6 no.4:29-33 Ap '61. (MIRA 14:6)

1. Iz kafedry gosspital'noy pediatrii (zav. - prof. K.F.Popov)  
II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova na  
baze Gertskey klinicheskoy bol'nitsy imeni I.V.Rusakova (dir. -  
dotsent V.A.Kruzhkov). (TOXOPLASMOSIS)

FILIPPOVA-NUTRIKHINA, Zoya Leont'yevna; NEYMAN, M.I., red.; BALDINA,  
N.F., tekhn. red.

[Toxoplasmosis] Toksoplazmoz. Moskva, Medgiz, 1962. 19 p.  
(MIRA 15:10)

(TOXOPLASMOSIS)

FILIPPOVA-NUTRIKHINA, Z.I.

Influenza in children during the first year of life. Vop.okh.mat.i  
det. 7 no.4:18-23 Ap '62. (MIRA 15:11)

1. Iz kafedry gosptal'noy pediatrii (zav. - prof. K.F.Popov)  
II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.  
(INFLUENZA)

RESHETNIKOVA, A.D.; FADEYEVA, M.A.; FILIPPOVA-NUTRIKHINA, Z.I.; YESIKOV, M.S.;  
KOLUTNOV, M.V.; PUGACHEV, A.G.

Diagnosis of toxoplasmosis in children. Sov.med. 25 no.1:47-50  
Ja '62. (MIRA 15:4)

1. Iz kafedry gosptal'noy pediatrii II Moskovskogo meditsinskogo  
instituta (zav. - prof. K.F.Popov) i kafedry detskoy khirurgii  
(zav. - prof. S.D.Ternovskiy).  
(TOXOPLASMOSIS)

FILIPPOVICH, A.

Intensifying the training of building specialists for collective farms. Sel'.stroitel'. 11 no.1:28-29 Ja '56. (MIRA 9:6)

1. Starshiy inzhener Glavkolkhozstroya Ministerstva gorodskogo i sel'skogo stroitel'stva RSFSR.  
(Building trades--Study and teaching)

FILIPPOVICH, A., inzhener; NOVOSELOV, N.

Carry out building on collective farms all year long. Sel'stroi.  
11 no.11:3-5 N '56. (MIRA 10:1)

1. Korrespondent zhurnala "Sel'skiy stroitel".  
(Bogorodsk District—Building)



**PIILIPPOVICH, A. inghener.**

**First successes. Sel'.stroil. 12 no.5:22-23 My '57. (MIRA 10:7)  
(Construction industry)**

**FILIPPOVICH, A.**

Construction on collective farms is conducted according to new  
methods. Sel'. stroi. 12 no.11:22-24 N '57. (MIRA 10:11)

1. Starshiy inzhener Glavkolkhozstroya Ministerstva sel'skogo kho-  
zyaystva RSFSR.

(Construction industry)

*Filippovich, A.*  
~~FILIPPOVICH, A.~~

Stavropol construction organizations serving more than one collective  
farm. Sel'.stroil.12 no.12:4 D '57. (MIRA 10:12)

1. Starshiy inzhener Glavkolkhozstroya Ministerstva sel'skogo  
khozyaystva RSFSR.  
(Stavropol Territory--Construction industry)

FILIPPOVICH, A.

A young organization gets stronger. Sel' stroi. 13 no.8:8-9  
Ag '58. (MIRA 11:9)

1. Starshiy inzh. Glavkolkhozstroya Ministerstva sel'skogo  
khozyaystva RSFSR.  
(Degtyanka District--Farm buildings)

FILIPPOVICH, A., starshiy inzhener

Interfarm building organisation of Osinskiy District speeds up  
construction. Sel'strel. 14 no.6:13-14 Je '59.  
(MIRA 12:9)

1. Glavkolkhozstroy Ministerstva sel'skogo khozyaystva RSFSR.  
(Osinskiy District--Building)

FILIPPOVICH, A.

Seven-year plan of the Yekaterinovka interfarm building organization.  
Sel'stroi. 14 no.9:14-15 8 '59. (MIRA 12:11)

1. Starshiy inzhener Glavnogo upravleniya stroitel'stva Ministerstva  
sel'skogo khozyaystva RSFSR.  
(Yekaterinovka District—Building)

FILIPPOVICH, A., insh.

Bashkirian interfarm building organization. Sel'.stro1. 15  
no.5:10 My '60. (MIRA 13:8)  
(Bashkiria--Building)  
(Bashkiria--Collective farms--Interfarm cooperation)

FILIPPOVICH, A., starshiy inzh.

He answers the readers' letters. Sel'. stroi. 15 no. 2:30 F '61.  
(MIRA 14:5)

1. Glavnoye upravleniye stroitel'stva Ministerstva sel'skogo  
khozyaystva RSFSR.

(Construction industry)



FILIPPOVICH, A., starshiy inzh.

Increase the skill of rural builders. Sel'stoi. 15 no.1:21  
Ja '60. (MIRA 15:7)

1. Upravleniye po stroitel'stvu kolkhovakh Ministerstva  
sel'skogo khozyaystva RSFSR.  
(Construction workers--Education and training)

1. FILIPPOVICH, A. A.
2. USSR (600)
4. Intestines - Tumors
7. Hemangioma of the mesentery of the small intestine, Vest. khir., 73, no. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

FILIPPOVICH, A. N.

DECEASED

1963/3

c' 1962

BIOLOGY -  
diseases

see ILC

FILIPPOVICH, A.N.

Clinocoepidemiological characteristics of an outbreak of  
dysentery spread by way of water. Zdrav. Bel. 9 no.1:  
57-58 J'63. (MIRA 16:8)  
(MINSK—DYSENTERY)

TURBIN, N.V., akademik; TROITSKIY, N.A.; FILIPPOVICH, A.S.; BUDOVSKIY, E.I.;  
KOCHETKOV, N.K.

Comparison of the mutagenic activity of hydroxylamine and O-methyl-hydroxylamine. Dokl. AN SSSR 158 no.5:1197-1198 O '64.

(MIRA 17:10)

1. AN BSSR (for Turbin). 2. Chlen-korrespondent AN SSSR (for Kochetkov).

FILIPPOVICH, B.

At the Bulayevo elevator. Muk.-elev. prom. 23 no.4:6-8 Ap '57.  
(MIRA 10:5)

1. Vileyskiy khlebopriyemnyy punkt Molodechnenskoj oblasti.  
(Bulayevo--Grain handling)

TEREKHOV, A.; KALININ, V.; FILIPPOVICH, B.; P'YANENKO, V., inzhener.

Problems pertaining to the organization of grain cleaning.

Muk.-elev.prom.23 no.8:7-10 Ag '57.

(MIRA 10:11)

1. Belotserkovskiy sel'skokhozyaystvennyy institut (for Terekhov).
2. Udmurtskoye respublikanskoye upravleniye khleboproduktov (for Kalinin).
3. Vileyskiy khlebopriyemnyy punkt Molodechnenskoj oblasti (for Filippovich).
4. Moskovskaya normativno-issledovatel'skaya stantsiya (for P'yanenko).

(Grain--Cleaning)

FILIPPOVICH, B.

Unloading bran and feed from railroad cars. Mukh.-elev. prom. 24  
no. 4:25 Ap '58. (MIRA 11:5)

1. Vileyskiy khlebopriyemnyy punkt Molodechnenskoj oblasti.  
(loading and unloading)



FILIPPOVICH, B.

Get the equipment ready for use in time. Muk.-elev.prom. 25  
no.6:5 Ja '59. (MIRA 12:9)

1. Zamestitel' direktora Zolotorunnogo khlebpriyennogo punkta  
Kokchetavskoy oblasti.  
(grain elevators--Equipment and supplies)

GAN'ZHIN, V.; FILIPPOVICH, B.; ANDREYEV, G.

Problems in the management and organization of work at grain receiving enterprises. Muk.-elev. prom. 28 no.8:20-22 Ag '62. (MIRA 17:2)

1. Nachal'nik proizvodstvenno-tekhnicheskogo otdela Orenburgskogo upravleniya khleboproduktov (for Gan'zhin). 2. Glavnyy agronom Petropavlovskogo elevatora (for Filippovich). 3. Zamestitel' direktora po kachestvu Tan-kerisskogo khlebopriyemnogo punkta TSelinogrdskoy oblasti (for Andreyev).

FILIPPOVICH, B.A., mayor meditsinskoy sluzhby, kand.med.nauk

Surgical treatment of epiphora in diseases of the lacrimal points.  
Voen.-med.zhur. no.4:78 Ap '60. (MIRA 14:1)  
(LACRIMAL ORGANS—SURGERY)

MARSHALOVICH, D.B., polkovnik meditsinskoy sluzhby; SACHENKO, N.I.,  
podpolkovnik meditsinskoy sluzhby; AZBUKIN, G.V., podpolkovnik  
meditsinskoy sluzhby; HELOUSOV, G.G., podpolkovnik meditsinskoy  
sluzhby; KITAYGORODSKIY, N.I., podpolkovnik meditsinskoy sluzhby;  
FILIPPOVICH, B.A., podpolkovnik meditsinskoy sluzhby

Rendering of emergency aid at the regimental medical aid station  
to persons poisoned with toxic organophosphorus substances.  
Voen.-med. zhur. no.3:19-22 '65. (MIRA 18:11)

GAVRILOVA, M.A., doktor tekhn.nauk; ARTOBOLEVSKIY, S.I., doktor tekhn. nauk; BERSHTEYN, S.I., kand. tekhn. nauk; BOLGAKOV, A.A., kand. kand. tekhn. nauk; LERNER, A.Ya., doktor tekhn. nauk; MEYEROV, M.V., doktor tekhn. nauk; SUKHOV, N.K., doktor tekhn. nauk; FEL'DBAUM, A.A., doktor tekhn. nauk; FILIPPOVICH, B.I., doktor tekhn. nauk; KHAMOY, A.V., doktor tekhn. nauk; SHORIGIN, A.B., doktor tekhn. nauk

[Terminology on the basic concepts of automatic control] Terminologia osnovnykh poniatii avtomatiki; doklad. Moskva, 1960. 31 p. (International Federation of Automatic Control, ost International Congress, Moscow, 1960. Doklady, no.232) (MIRA 14:8)

1. Natsional'nyy komitet po avtomaticheskemu upravleniyu. Nauchno-tehnicheskii komitet terminologii. 2. Nauchno-tehnicheskii komitet terminologii Natsional'nogo komiteta SSSR po avtomaticheskemu upravleniyu (for all).

(Automatic control—Terminology)

L 35846-66 EWP(m)/EWT(1)/EWT(m) IJP(c) JAJ/WW/JW  
 ACC NR: AP6014990 SOURCE CODE: UR/0170/66/010/005/0620/0525

AUTHOR: Agafonova, F. A.; Filippovich, B. S.

ORG: Polytechnic Institute im. M. I. Kalinin, Leningrad  
 (Politekhnikheskiy institut)

TITLE: Investigation of the critical heat fluxes in the high velocity  
 flow of a gas-liquid mixture at low pressures

SOURCE: Inzhenerno-fizicheskii zhurnal, v. 10, no. 5, 1966, 620-625

TOPIC TAGS: heat transfer, heat flux, gas flow, liquid flow, SURFACE  
 FILM, PIPE FLOW, VAPORIZATION

ABSTRACT: If the velocity of the movement of a liquid in a film is sufficiently large, the process of vapor formation at the tube wall can be suppressed by convection, and vaporization of the liquid takes place only from the surface of the film. The main difference in the mechanism of the boiling crisis in this case from the boiling crisis in the usual case consists in the fact that a sharp worsening in heat transfer conditions occurs as a result of the total vaporization of the liquid phase. The article shows motion picture photos which show that with an increase in the heat load from 0 to 1.5 watts/m<sup>2</sup> the film disappears and destruction of the plate takes place. The article gives a mathematical

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UDC: 536.423.4

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treatment of the subject, based on the assumption that, in the absence of a heat flux, the film at the wall has a constant thickness. The results show that the specific heat flux of the flow increases with an increase of the liquid content of the flow, and decreases with an increase in the vapor flow rate. An increase in the length of the working section leads to a decrease in the critical heat flux. Orig. art. has: 8 formulas and 2 figures.

SUB CODE: 20/ SUBM DATE: 11Jan66/ ORIG REF: 003/ OTH REF: 007

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Card 2/2

SAZHIN, B.I.; FILIPPOVICH, D.S.

Electric conductivity of polymers. Part 6: Calculation of specific resistances in the region of dipole-radical polarization. Vysokom. soed. 5 no.8:1207-1212 Ag '63. (MIRA 16:9)

1. Nauchno-issledovatel'skiy institut polimerizatsionnykh plastmass.

(Polymers--Electric properties)  
(Polarization (Electricity))



KRASIL'NIKOV, L.V., inzh.; FILIPPOVICH, E.M., inzh.

Contactless multiple-point temperature signaling system. Elek.  
sta. 36 no.1:80-82 Ja '65. (MIRA 18:3)

KLYUCHAREV, A.A., dotsent; FILIPPOVICH, F.K., vrach; KUL'SHINSKAYA, Ye.P.,  
vrach; STAROVOTTOVA, T.D., vrach

Characteristic clinical features of dysentery in adults. Zdrav.  
Belor. 6 no.3:51-53 Mr '60. (MIRA 13:5)

1. Iz kafedry infektsionnykh bolezney Minskogo meditsinskogo insti-  
tuta (zaveduyushchiy - professor A.N. Filippovich) i Minskoy in-  
fektsionnoy klinicheskoy bol'nitsy (glavnyy vrach Z.G. Alikina).  
(DYSENTERY)

CHIKALENKO, G.A., inzh.; DANILOV, M.S., inzh.; FILIPPOVICH, G.T., inzh.;  
DANILOV, M.S., inzh.

Deposition deoxidation of carbon steel for shape casting.  
Mashinostroenie no.1:57-59 Ja-F '64. (MIRA 17:7)

FILIPPOVICH, I. F.

2  
The localization of cytochrome oxidase in the plant cell.  
N. M. Sisakyan and I. F. Filippovich (A. N. Bakh Inst.  
Biochem., Acad. Sci. U.S.S.R., Moscow). -- *Biokhimiya* 21,  
163-7 (1956). -- In the isolated chloroplasts of the tobacco  
leaf the presence of actively functioning cytochrome oxidase  
(I) was demonstrated. Repeated washing of the chloro-  
plast fraction with sucrose phosphate solution considerably  
enhanced the activity of I. It was found in all fractions of  
the tobacco-leaf homogenates, except in the supernatant re-  
sulting from centrifugation at 22,000 r.p.m. The highest  
activity of I was found in the fraction of chloroplast sedi-  
mented by centrifugation at 550 r.p.m. This fraction also  
contained the major part of the chlorophyll. The detn. of  
the activity of I must be made in the presence of diethyl-  
dithiocarbamate, which prevents the accumulation of qui-  
nones and their inhibiting effect upon the activity of I.

B. S. Levine

110

CA

Cytochrome oxidase of isolated plastids. N. M. Siskyan and I. I. Filipovich. Doklady Akad. Nauk S.S.S.R. 67, 317-30 (1949). Plastids (and to lesser extent other structural elements) from leaves of grapes, cabbage, tomato, geranium and potato, carrot and geranium roots contain cytochrome oxidase, which is tightly bound to the lipoproteins and acts only in the activated state; vegetative hybridization leads to drastic changes of its activity and the results are inheritable. The nature of the enzyme is confirmed by KCN and  $\text{Na}_2\text{S}_2\text{O}_4$  inhibition. G. M. Kosolapoff

List of Biochemistry in A. N. Bakh, ASUSSR.

ASUSSR METALLURGICAL LITERATURE CLASSIFICATION

GROUP	CLASS	SUBCLASS	SECTION	ITEM
1	1	1	1	1
2	2	2	2	2
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100	100	100	100	100

110

CA

The character of the changes of activity of respiratory enzymes during the process of the stepwise development of a plant. N. M. Sisakyan and I. I. Filippovich. *Doklady Akad. Nauk S.S.S.R.* 76, 443-4 (1961).—Examn. of the enzymic systems of wheat and barley during winterizing and during the light phase of development revealed that during winterizing a noticeable increase of respiration occurs (max. in 40 days in wheat and 33 days in barley). Peroxidase and polyphenoloxidase are active in wheat, but no ascorbic acid oxidase is found; barley shows activity of all 3 enzymes. Cytochrome oxidase in wheat declines rapidly and vanishes in 6 days, and in 24 days in barley. In wheat the light phase leads to rapid rise of the 3 principal oxidases, a similar but somewhat smaller increase occurring in barley. Indications are that the light phase in itself is not responsible for the abrupt increase of oxidative activity, but rather is the result of the onset of the appropriate stage of plant development at that time. The nonwinterized specimens of barley all contain appreciable amts. of cytochrome oxidase. G. M. Kosolapoff

FILIPPOVICH, I. I.

FILIPPOVICH, I. I. -- "The Character of the Change of Respiration and Oxidation-Reduction Enzymes During the Process of Paasic Development in Plants." Sub 25 Dec 52, Inst of Biochemistry imeni A. N. Bakh.  
(Dissertation for the Degree of Candidate in Biological Sciences.)

SO: Vechernaya Moskva January-December 1952

SISAKYAN, N.M.; FILIPPOVICH, I.I.

Character of metabolism in phasic development of the organism. ~~Zhur.ob.~~  
biol. 14 no.3:215-228 My-Je '53. (MLRA 6:6)  
(Plants--Metabolism) (Growth (Plants))



FILEPOVICH, I.I.

✓ Synthesis of proteins in isolated chloroplasts. N. M. Sisakyan and I. I. Filippovich (A. N. Bakh Inst. Biochem., Acad. Sci. U.S.S.R., Moscow). *Doklady Akad. Nauk S.S.S.R.* 102, 579-82 (1955).—Chloroplasts, isolated from kidney bean and sugar beet leaves either by maceration in sucrose-phosphate, pressure filtration and centrifugation, or by grinding in sucrose-phosphate soln. and repeated centrifugation, all performed in the cold, were analyzed for protein and nonprotein N, and then were suspended in sucrose-phosphate soln. contg.  $MgSO_4$ , succinic acid, and fumaric acid, with thymol as a protecting agent. Introduction of leucylglycylglycine into the system led to displacement of the enzymic equil. in the direction of greater hydrolysis of the peptide linkages (increased nonprotein N, decreased protein N). Introduction of adenosinetriphosphate (ATP) alone gave a rise in protein N and decline of sol. N. The use of glycylglycine gave a similar result. Leucoplasts from etiolated leaves of the sugar beet did not show an increase of protein N under similar conditions. The use of  $C^{14}$  of glycine or its peptides showed that only traces of  $C^{14}$  are found in the plastid proteins when only glycine and ATP are used; when ATP and glycylglycine are employed, however, the protein matter acquires considerable  $C^{14}$  activity. Possibly the route for protein synthesis is a transpeptidase reaction (cf. Hanes, *et al.*, *C.A.* 46, 5622b), although chloroplasts raised 3 times in the cold with sucrose-phosphate soln. develop an ability to incorporate  $C^{14}$  from free glycine into their proteins; this is blocked by addn. of the centrifugate juice from the plastid isolation. Thus, the juice apparently contains inhibitors which block the enzymic uptake of  $C^{14}$  from free glycine. G. M. K. — (1)

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**APPROVED FOR RELEASE: 06/13/2000**

**CIA-RDP86-00513R000413120019-0"**

SISAKYAN, H.M.; FILIPPOVICH, I.I.

Protein synthesis in isolated structures of plant cells [with  
summary in English]. Biokhimiia 22 no.1/2:375-384 Ja-F '57.

(MLRA 10:7)

1. Institut biokhimii im. A.N.Bakha Akademii nauk SSSR, Moskva.  
(PLANTS, metabolism,  
protein synthesis in vitro (Rus))  
(PROTEINS, metabolism,  
plant synthesis in vitro (Rus))

SISAKYAN, N.M.; ~~FILIPPOVICH~~, I.I.

Protein synthesis and cellular structures. Izv. AN SSSR, Ser. biol.  
24 no.6:839-854 N-D '59. (MIRA 13:4)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R.,  
Moscow.

(PROTEIN METABOLISM)

(PLANT CELLS AND TISSUES)

FILIPPOVICH, I. I.

"On the Synthesis of the Peptide Bond in Isolated Chloroplasts."

report submitted for the First Conference on the problems of Cyto and Histochemistry, Moscow, 19-21 Dec. 1960.

Laboratory of Enzymology of the Institute of Biochemistry Imeni A. N. Bakh,  
Academy of Sciences USSR, Moscow.

FILIPPOVICH I.I. (USSR)

"Synthesis of Peptide Bonds in Isolated Chloroplasts"

Report presented at the 5th Int'l Biochemistry Congress,  
Moscow, 10-16 Aug. 1961

SISAKYAN, N.M., akademik; FILIPPOVICH, I.I.; SVETAYLO, E.N.

Participation of chloroplast ribosomes in protein  
synthesis. Dokl. AN SSSR 147 no.2:488-489 N '62.

(MIRA 15:11)

1. Institut biokhimii im. A.N. Bakha AN SSSR.

(PROTEIN METABOLISM)

(CHROMATOPHORES)

SISAKYAN, N.M.; KOPYAKOVA, A.M.; FILIPPOVICH, I.I.

Adenosinetriphosphatase of protoplasmic structures in plants.  
Biokhimiia 28 no.6:1011-1017 N-D'63 (MIRA 17:1)

1. Institute of Biochemistry, Academy of Sciences of the  
U.S.S.R., Moscow.



FILIPPOVICH, I.I.; SVETAYLO, E.N.; ALIYEV, K.; SISAKYAN, N.M., akademik

Heterogeneity of chloroplast ribosome fractions. Dokl. AN  
SSSR 153 no.6:1443-1446 D '63. (MIRA 17:1)

SHEVCHENKO, L.A.; FILIPPOVICH, I.I.

Effect of antagonists of protein synthesis on the ribosomal apparatus of the yeast cell. Dokl. AN SSSR 161 no.6:1461-1464 Ap '65.

(MIRA 18:5)

1. Institut biokhimii im. A.N.Bakha AN SSSR i Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR. Submitted October 13, 1964.

FILIPPOVICH, I.V., inzh.

Determining the depth of a current in a compressed section  
behind a spillway. Gidr. stroi. 31 no.9:46-47 S '61. (MIRA 14:12)  
(Spillways)

PERYSKHIN, G.A., prof.; FILIPPOVICH, I.V., inzh.

"The concrete establishment at large construction projects" by  
G.D. Petrov. Reviewed by G.A. Peryshkin, I.V. Filipnovich. Izv.-  
vys.uch.zav.; stroi. i arkh. 5 no.4:181-182 '62. (MIRA 15:9)

1. Belorusskiy politekhnicheskiy institut.  
(Concrete plants) (Petrov, G.D.)

FILIPPOVICH, I. V., inzh.

Determination of depth on a spillway with wide threshold. Izv.  
vys. ucheb. zav.; energ. 7 no.5:81-85 My '64. (MIRA 17:7)

1. Belorusskiy politekhnicheskiy institut. Predstavlena  
kafedroy gidrotekhnicheskogo stroitel'stva.

FEDCSEYEV, V.M.; FILIPPOVICH, I.V.

S-derivatives of thiourea. Part 10: Preparation of  
2-amino-5-bromo- $\Delta^2$ -dihydro-1,3-thiazine. Zhur. ob.khim. 34  
no. 5:1556-1561 My '64.

S-derivatives of thiourea. Part 11: Product of the reaction  
of 2,3-dibromopropylamine hydrobromides with potassium  
thiocyanate. Ibid. 1561-1565 (MIRA 17:7)

1. Moskovskiy gosudarstvennyy universitet.

FILIPPOVICH, I.V. (Moskva)

Control mechanisms of DNA biosynthesis. Usp. sov. biol.  
58 no. 1:22-30 J1-Ag '64. (MIRA 17:12)

ACC NR: AM6026752

Monograph

UR/

Romantsev, Yevgeniy Fedorovich; Blokhina, Vera Dmitriyevna;  
Koshcheyenko, Nikolay Nikolayevich; ~~Filippovich, Igor~~ Vladimorovich

Early radiation and biochemical reactions (Ranniye radiatsionno-biohimicheskiye reaktsii) Moscow, Atomizdat, 1966. 270 p. illus., biblio., tables. 2200 copies printed.

TOPIC TAGS: radiation biochemistry, <sup>cell effect</sup> radiobiology, ~~radiation biology~~, ~~effect~~, radiation chemistry, ~~radiation sensitivity~~, ~~radiation resistance~~, radiation sickness, ~~chemical radiation protection~~, DNA, RNA, ~~anti radiation drug~~, <sup>radiation cell effect</sup>

PURPOSE AND COVERAGE: This book is intended for biologists and biochemists concerned with problems of radiation biochemistry. The authors investigate the nature of early biochemical changes in the living cell following irradiation, and the effect of protective chemicals used in counteracting radiation in the living organism. The formation of peroxides and peroxide-like compounds, the effect of radiation on the synthesis of DNA and information RNA, the formation of macroergs, and other radiation problems in radiation biochemistry are discussed. An attempt is also made to determine the relationship between the operational mechanism of several protective chemicals and "radiosensitive" biochemical reactions. Each chapter is accompanied by an extensive list of references.

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UDC: 613.541.15:543.9.



ACC NR: AM6026752

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